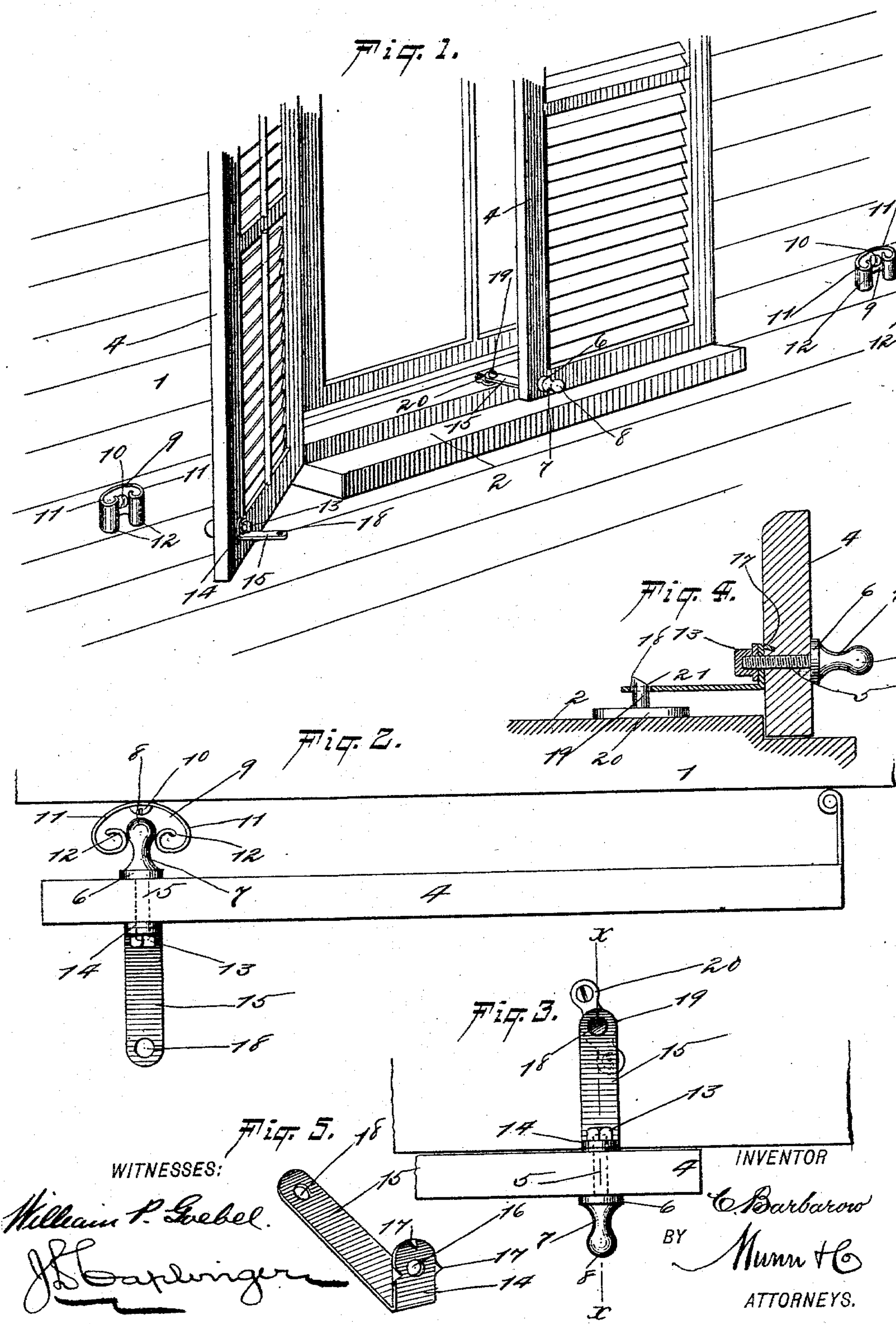
(No Model.)

C. BARBAROW.

SHUTTER FASTENER.

No. 548,501. Patented Oct. 22, 1895.



WITNESSES:

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UNITED STATES PATENT OFFICE.

CHARLES BARBAROW, OF PATERSON, NEW JERSEY.

SHUTTER-FASTENER.

SPECIFICATION forming part of Letters Patent No. 548,501, dated October 22, 1895.

Application filed July 31, 1895. Serial No. 557,726. (No model.)

To all whom it may concern:

Be it known that I, CHARLES BARBAROW, of Paterson, in the county of Passaic and State of New Jersey, have invented a new and Improved Window-Shutter Fastener, of which the following is a full, clear, and exact description.

This invention relates to certain improvements in window-shutter fasteners, and has for its object to provide a device of a simple and inexpensive construction adapted to be conveniently applied to the shutter for use, which shall afford a secure and effective means for holding the shutter fastened in its closed and opened position, and which shall be adapted for convenient operation when it is desired to open or close the shutter.

The invention consists in a shutter-fastener comprising a shank adapted to pass through the shutter and having a headed outer end arranged to engage a spring-retaining device adapted to hold the shutter in its open position, and having its inner end provided with a catch arranged to engage a projection on the sill to hold the shutter in its closed position.

The invention also contemplates certain other novel features of construction and combinations and arrangements of the parts of the improved shutter-fastener, whereby certain important advantages are attained and the device is made simpler and better adapted for use than similar devices heretofore employed, all as will be hereinafter fully set forth.

The novel features of the invention will be carefully defined in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view showing a portion of the side of a building having a window, the shutters of which are provided with fastening devices constructed according to my invention. Fig. 2 is a plan view drawn to an enlarged scale and showing a window-shutter provided with my improved fastener, the shutter being in its open position. Fig. 3 is a fragmentary plan view showing a shutter provided with my improved fastener, the shutter being in a closed position. Fig. 4 is a vertical section taken through the shutter and the fastening device therein in the plane indicated by line $x\ x$ in Fig. 3; and Fig. 5 is a perspective detail view showing the spring-locking plate forming part of my improved shutter-fastener.

In the views, 1 represents the side of the building, and 2 represents the sill of the window-casing, to the sides of which are hinged the shutters 4 in any usual or preferred way, there being, as shown in Fig. 1, two shutters 4 usually provided for each window, and each shutter is provided with an independent fastener located, by preference, adjacent to its inner lower corner opposite its hinged side.

Each fastener comprises a shank 5, adapted to pass through the shutter, as seen in Fig. 4, said shank being screw-threaded and provided with an enlarged outer end 6, flattened at the point where it rests against the outer side of the shutter 4, beyond which said enlarged end is formed with a reduced portion 7, forming a neck and with a rounded spheroidal head 8 at the extremity thereof, adapted to enter and be held between the arms of a spring-retaining socket 9, secured to the outer side of the building in position to receive the same. Each of said spring-retaining sockets 9, as herein shown, consists of a strip of spring material—as spring-steel, for example—having a central perforation to receive a screw 10, whereby the socket is secured in place and having its ends correspondingly bent outwardly, as indicated at 11, and provided with inturned rounded extremities 12, as clearly seen in the drawings, and said extremities 12 are, by preference, spaced apart only sufficiently to receive between them the neck 7 of the enlarged end of the fastener on the shutter, whereby, when the enlarged spheroidal head 8 of said fastening device is entered between them in opening the window-shutter 4, the arms 11 are forced apart to permit the same to enter, after which their rounded extremities 12 bear on said neck 7 in such a way as to hold said head securely against removal under all ordinary pulls which may be exerted on the shutter by the wind, &c.

The screw-threaded shank 5 is of a length to project at its end beyond the inner face of the shutter 4, and is adapted to receive a nut 13 screwed thereon, whereby the fastener is

held against removal from the shutter, and between said nut 13 and the inner face of the shutter is held the bent end 14 of the spring locking or catch plate 15, (shown in detail in Fig. 5,) said end 14 thereof being provided with a perforation 16 for the passage of the shank 5, and being also provided with prongs or projections 17 on its inner side adapted to engage the inner side of the shutter 4, whereby when in place and held under the nut 13 said locking-plate 15 will be effectually held against turning and swinging loosely on the shank 5 of the fastener.

On the extremity of the locking-plate 15, opposite the bent end 14 thereof, is a bar provided with a perforation or recess 18, adapted to be engaged by a catch or projection 19, formed on a catch-plate 20, secured on the window-sill in proper position, said catch or projection 19 being provided with a beveled cam-face 21 on its front side, over which the extremity of the catch-plate 15 is adapted to slip or slide, so as to engage said catch 19 in said recess or opening 18 in the catch-plate 15 when the shutter is closed.

In operation the shutter being in its closed position, as indicated in Figs. 1, 3, and 4, the extremity of the locking-plate 15 is lifted when it is desired to open the shutter in such a way as to disengage the recess or opening 18 from the catch 19 and permit the shutter to swing freely on its hinges, and when thus free said shutter may be swung wide open, so that the spheroidal head 8 in the outer end of the shank 5 is entered into the socket 9 and held therein by the elasticity of the arms thereof.

The device constructed as above described is extremely simple and inexpensive and is adapted to be applied to a window with a minimum of labor and expense, since but two screws are necessary to be inserted in the woodwork to hold the catch 20 and the socket 9, and a single hole bored through the shutter for the passage of the shank therethrough. Moreover, when so applied the device is capable of very convenient operation from within the building, the shutter being held in its outer position by the elasticity of the socket 9 alone, and when in its closed position being securely locked against opening from the outside of the building. Further, should either of the sockets 9 become loose this will in no way interfere with the proper operation of the fastener, since said socket being held at its center only on the screw 10 may rotate freely on said screw without becoming inoperative.

From the above description of my invention it will be evident that considerable modification may be made in the construction and arrangement of my improved shutter-fastener as herein shown and described without material departure from the principles of the invention, and for this reason I do not wish to be understood as limiting myself to the precise form of the device herein set forth.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A shutter fastener, comprising a screw-threaded shank adapted to pass through a shutter and having an enlarged outer end, a nut screwing in said shank, and a locking plate having a bent perforated end, held on the threaded shank and provided with prongs to engage the inner side of the shutter, substantially as set forth.

2. A shutter fastener, comprising a screw threaded shank adapted to pass through a shutter and having an enlarged outer end, a locking plate of elastic material held on the inner end of said shank and having a bent and recessed end, a nut screwing on the inner end of the shank to hold said locking plate in place, a catch on the window sill to engage the recess in the locking plate when the shutter is closed, and a socket adapted to be secured to the building and consisting of a piece of metal having spring arms adapted to receive and hold between them the enlarged end of said shank when the shutter is opened, substantially as set forth.

CHARLES BARBAROW.

Witnesses:
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FRANKLIN HOLLAND.